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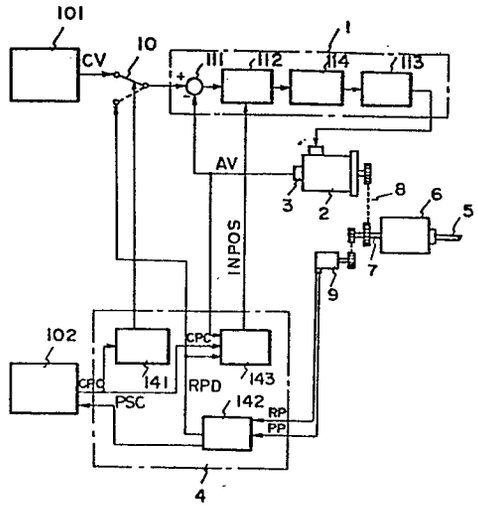
(54) Spindle rotation control system.

(57) The system controls the speed of a motor 2 which drives spindle 5.

A speed detector 3 detects actual speed AV of motor 2. A speed control circuit 1 can control the motor so as to make actual speed AV coincide with a commanded speed CV. An orientation control circuit 4 provides a position deviation signal RPD on the basis of rotational spindle position and a commanded stopping position (STP). When signal RPD is applied to speed control circuit 1 in place of commanded speed CV (by means of changeover switch 10) the circuit 1 controls the motor so as to bring the spindle to rest at the commanded stopping position (STP).

An in-position signal generating circuit 143 generates an in-position signal INPOS when the spindle reaches the vicinity of the commanded stopping position (STP) In response to the INPOS signal the gain of speed control circuit 1 (e.g. the gain of a phase compensation circuit 112) is increased to hold the spindle more rigidly in position.

Fig. 5



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EUROPEAN SEARCH REPORT

Application number
EP 80 30 3516

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
	FR - A - 2 388 335 (DAISY SYSTEMS HOLLAND) * Page 5, line 1 - page 6, line 32; figure 1; claim 1 * & US - A - 4 219 765	1
	US - A - 3 731 176 (MITCHELL et al.) * Column 1, line 66 - column 2, line 5; column 3, line 13 - column 4, line 4; figure 1 *	1
	US - A - 3 644 720 (FALK) * Column 2, line 16 - column 3, line 21; figures 1,3 *	1
	FR - A - 2 388 640 (FUJITSU FANUC) * Page 3, line 40 - page 9, line 11; figures 1-5 * & GB - A - 1 579 609	1-4, 6,7

CLASSIFICATION OF THE APPLICATION (Int. Cl.³)

G 05 B 19/39

TECHNICAL FIELDS SEARCHED (Int. Cl.³)

G 05 B 19/39
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant
A: technological background
O: non-written disclosure
P: intermediate document
T: theory or principle underlying the invention
E: conflicting application
D: document cited in the application
L: citation for other reasons

&: member of the same patent family, corresponding document

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	04-05-1981	RUGGIU